

**PLAN**  
**ENTRANCE TAPER - TYPE I**

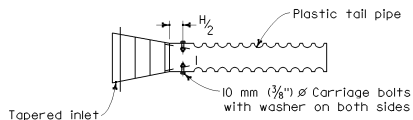
Plastic Pipe dimensions as tabulated below

P	250 mm (10")	375 mm (15")	450 mm (18")	525 mm (21")	675 mm (27")
Q	200 mm (8")	300 mm (12")	375 mm (15")	450 mm (18")	600 mm (24")
DIA	250 mm (10")	375 mm (15")	450 mm (18")	525 mm (21")	675 mm (27")
MIN L	3 m (10')	3 m (10')	3 m (10')	3 m (10')	3 m (10')
M	450 mm (18")	500 mm (20")	500 mm (20")	500 mm (20")	500 mm (20")
N	200 mm (8")	300 mm (12")	300 mm (12")	300 mm (12")	300 mm (12")
DIA	200 mm (8")	300 mm (12")	375 mm (15")	450 mm (18")	600 mm (24")
MIN L	3 m (10')	3 m (10')	3 m (10')	3 m (10')	3 m (10')
M	450 mm (18")	500 mm (20")	500 mm (20")	500 mm (20")	500 mm (20")
N	200 mm (8")	300 mm (12")	300 mm (12")	300 mm (12")	300 mm (12")

Taper joints may be welded or riveted.  
Dimensions to be as tabulated below

DIA	A	B	C	D	E	F	G	H
200 mm (8")	410 mm (16")	650 mm (25 1/2")	450 mm (18")	380 mm (15")	20 mm (3/4")	30 mm (1 1/4")	L8 m (6")	0.6 m (2') 300 mm (12")
300 mm (12")	460 mm (18")	650 mm (25 1/2")	485 mm (19")	95 mm (3 3/4")	135 mm (5")	135 mm (5")	L8 m (6")	0.6 m (2') 300 mm (12")
375 mm (15")	540 mm (21")	770 mm (30 3/4")	585 mm (23")	115 mm (4 1/2")	160 mm (6")	160 mm (6")	L8 m (6")	0.6 m (2') 350 mm (14")
450 mm (18")	610 mm (24")	860 mm (34")	685 mm (27")	125 mm (5")	185 mm (7")	185 mm (7")	L8 m (6")	0.6 m (2') 400 mm (16")
600 mm (24")	870 mm (34")	1170 mm (46")	890 mm (35")	150 mm (6")	240 mm (9")	240 mm (9")	L2 m (4') 450 mm (18")	

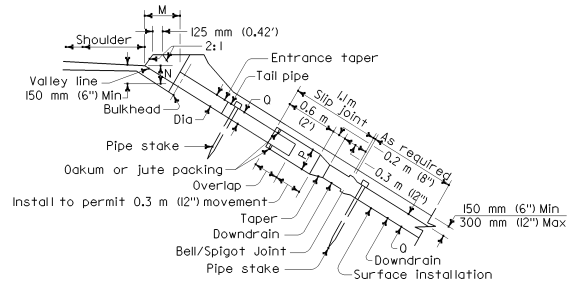
**ENTRANCE TAPER - TYPE I**



**PLAN**

Alternative tail pipe to entrance pipe connection

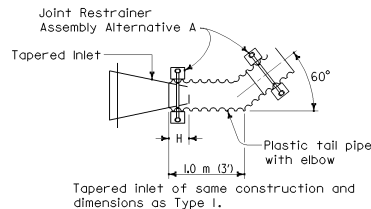
**DETAIL A**  
(See Note 7)



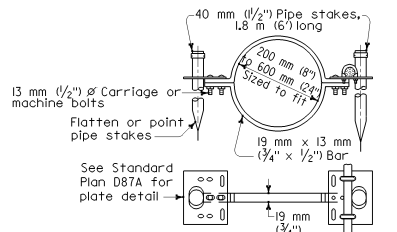
**SECTION (TYPE I)**

**NOTES:**

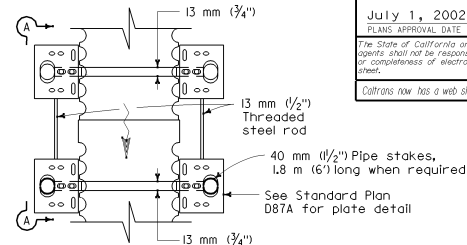
1. Cable or slip joint to be used when specified.
2. Slip joint to be omitted when completely buried.



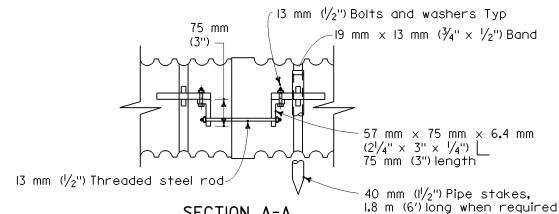
**ENTRANCE TAPER - TYPE 2**



**PLASTIC PIPE**  
**JOINT RESTRAINER ASSEMBLY**  
Alternative A



**PLAN**



**SECTION A-A**  
**PLASTIC PIPE**  
**JOINT RESTRAINER ASSEMBLY**  
Alternative B

**NOTES:**

1. All hardware to be galvanized after fabrication. All pipe stakes to be either galvanized after fabrication, or be fabricated from pre-galvanized pipe. If pre-galvanized pipe is used, weld areas shall be cleaned, and painted with zinc-rich primer.
2. See Standard Plan D87A for details of entrance taper placement at dike.
3. Pipe stakes to be used with joint restraint when specified.
4. Plastic pipe and fittings used for overside drains shall be from one manufacturer for each installation.
5. Entrance taper "H" dimension is length of insertion of metal taper into plastic pipe.
6. For cable anchorage system details, see Standard Plan D87C.
7. At contractors option, tail pipe and tapered inlet may be supplied from manufacturer as a pre-connected unit as shown in Detail A.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PLASTIC PIPE**  
**DOWNDRAIN DETAILS**

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

**D87B**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
<p>REGISTERED CIVIL ENGINEER</p> <p>July 1, 2002</p> <p>PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p>					
<p>Glenn DeCau</p> <p>No. C24541</p> <p>Exp. 9-30-03</p> <p>STATE OF CALIFORNIA</p>					